Access DB# 135482

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: DAWN GARRETT Examiner #: 76107 Date: 10/19/2004
Art Unit: 1774 Phone Number 272-1523 Serial Number: 10/701,241
Mail Box and Bldg/Room Location: Remsen 10A54 Results Format Preferred (circle): PAPER, DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Organic Electroluminescent Devices

Inventors (please provide full names): William Begley, Tukaram Hatwar, Manju Rajeswaran, David Giesen, Natasha Andrievsky

Earliest Priority Filing Date: 11/4/2003

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search Formula I of claim 1 (attached).

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STAFF USE ONLY

Searcher: EA
Searcher Phone #:
Searcher Location:
Date Searcher Picked Up:
Date Completed: 10-20-04
Searcher Prep & Review Time: 5
~~Clerical Prep Time:~~
Online Time: 35

Type of Search

NA Sequence (#)
AA Sequence (#)
Structure (#) ✓ (1)
Bibliographic
Litigation
Fulltext
Patent Family
Other

Vendors and cost where applicable

STN $125.00
Dialog
Questel/Orbit
Dr.Link
Lexis/Nexis
Sequence Systems
WWW/Internet
Other (specify)

PTO-1590 (8-01)

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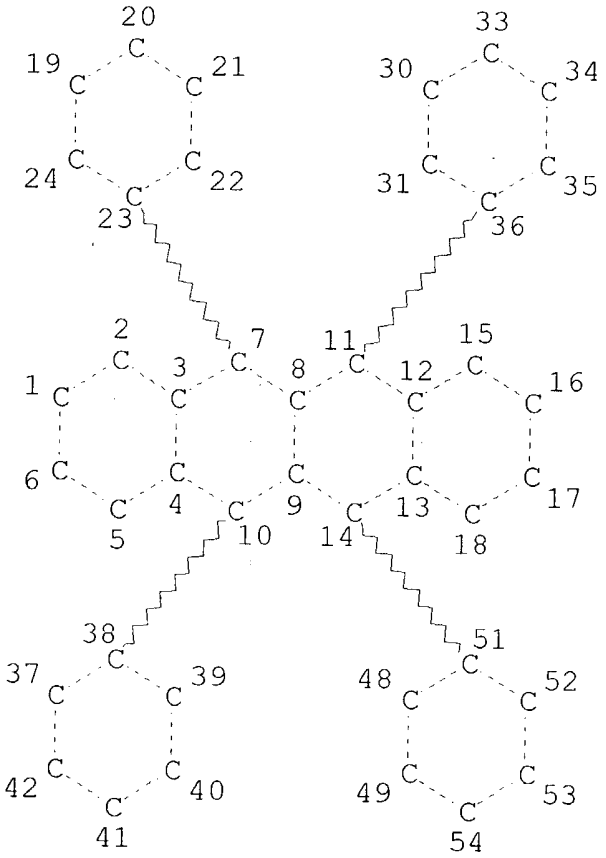

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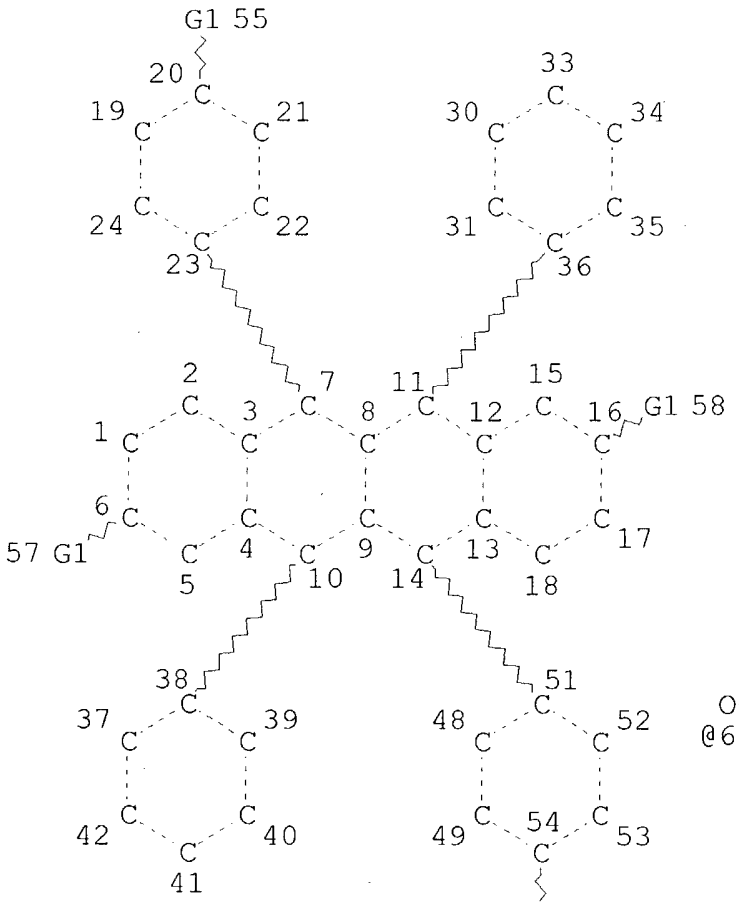
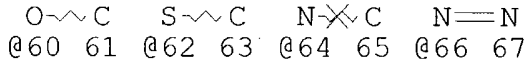
STEREO ATTRIBUTES: NONE
L3 STR





Page 1-A

G1 56

Page 2-A
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GRAPH ATTRIBUTES:

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STEREO ATTRIBUTES: NONE
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100.0% PROCESSED 49 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

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FILE 'CAOLD' ENTERED AT 16:05:10 ON 20 OCT 2004
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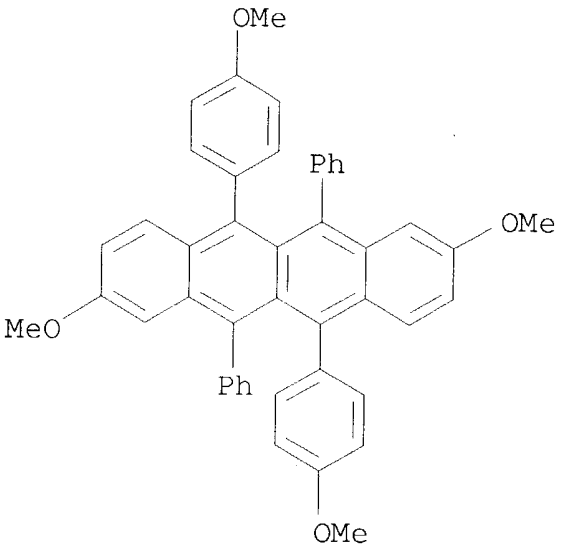
FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

=> d l15 1 all hitstr

L15 ANSWER 1 OF 1 CAOLD
AN CA51:12055c CAOLD
TI diarylphenylenenaphthacene derived from a tetramethoxyrubrene
AU Perronnet, Jacques
IT **118769-17-8** 119504-35-7 121544-89-6
IT **118769-17-8**
RN 118769-17-8 CAOLD
CN Naphthacene, 2,8-dimethoxy-5,11-bis(p-methoxyphenyl)-6,12-diphenyl-
(6CI) (CA INDEX NAME)



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FILE 'ZCAPLUS' ENTERED AT 16:05:25 ON 20 OCT 2004
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=> d l16 1-2 ibib abs hitstr hitrn

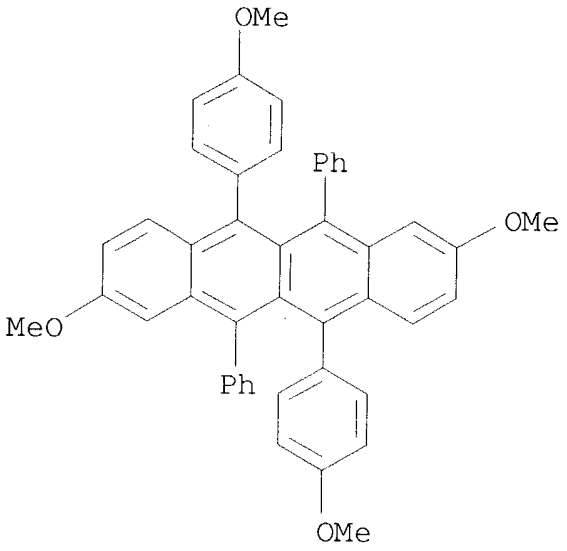
L16 ANSWER 1 OF 2 ZCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1956:16251 ZCAPLUS
DOCUMENT NUMBER: 50:16251
ORIGINAL REFERENCE NO.: 50:3369c-e
TITLE: Determination of the structures of eight methoxy tetraphenylnaphthacenes
AUTHOR(S): Dufraisse, Charles; Etienne, Andre; Valls, Jaime
SOURCE: Compt. rend. (1955), 240, 2097-2100
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 49, 6896h. The structures of the following substituted naphthacenes were assigned: 2,8-(MeO)2, 5,6,11,12-Ph4 (I), m. 259.degree.; 2-MeO, 11-(p-MeOC6H4), 5,6,12-Ph3 (II), m. 227.degree.; 5,11-(p-MeOC6H4)2, 6,12-Ph2 (III), m. 252.degree.; 2,8-(MeO)2, 5,11-(p-MeOC6H4)2, 6,12-Ph2 (IV), m. 257.degree.; 2,8-(MeO)2, 6,12-(p-MeOC6H4)2, 5,11-Ph2 (V), m. 250.degree.; 8-MeO,

5,6,12-(p-MeOC6H4)3, 11-Ph (VI), m. 226.degree.; 5,6,11,12-(p-MeOC6H4)4 (VII), m. 282.degree.; and 2,8-(MeO)2, 5,6,11,12-(p-MeOC6H4)4 (VIII), m. 255.degree.. The structures of III, IV, and VIII are known; those of the other compds. are assigned on the basis of m.ps., relative adsorption on Al2O3 on chromatog. (in order of decreasing adsorption, III, II, I; and VII, VI, V), and UV absorption spectra (the appearance of new absorption peaks in the spectra of I, II, IV, V, VI, and VIII is attributed to direct attachment of MeO to the naphthacene ring).

IT **118769-17-8**, Naphthacene, 2,8-dimethoxy-5,11-bis(p-methoxyphenyl)-6,12-diphenyl- **694489-88-8**, Naphthacene, 2,8-dimethoxy-5,6,11,12-tetrakis-(p-methoxyphenyl)-
(prepn. of)

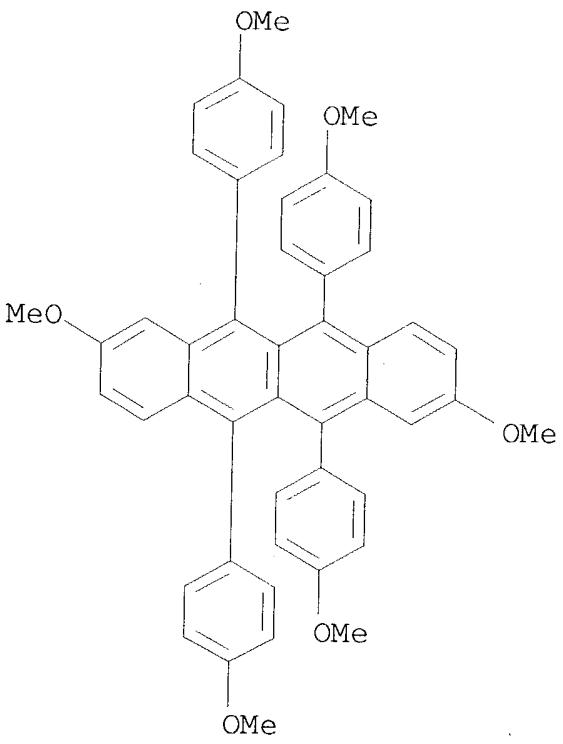
RN 118769-17-8 ZCAPLUS

CN Naphthacene, 2,8-dimethoxy-5,11-bis(p-methoxyphenyl)-6,12-diphenyl- (6CI) (CA INDEX NAME)



RN 694489-88-8 ZCAPLUS

CN Naphthacene, 2,8-dimethoxy-5,6,11,12-tetrakis-(p-methoxyphenyl)- (5CI) (CA INDEX NAME)



IT **118769-17-8**, Naphthacene, 2,8-dimethoxy-5,11-bis(p-methoxyphenyl)-6,12-diphenyl- **694489-88-8**, Naphthacene, 2,8-dimethoxy-5,6,11,12-tetrakis-(p-methoxyphenyl)- (prepn. of)

L16 ANSWER 2 OF 2 ZCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1955:35916 ZCAPLUS
DOCUMENT NUMBER: 49:35916
ORIGINAL REFERENCE NO.: 49:6896h-i,6897a-b
TITLE: Systematic enumeration of the methoxylated rubrenes obtainable by rubrenic reactions
AUTHOR(S): Dufraisse, Charles; Etienne, Andre; Valls, Jaime
SOURCE: Compt. rend. (1954), 239, 1101-4
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

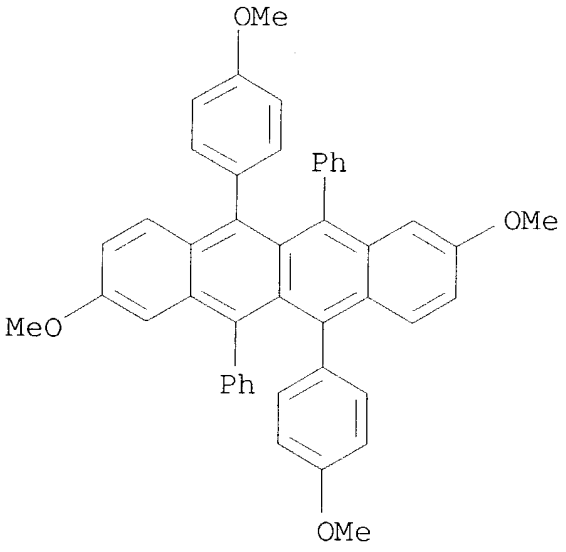
AB Eight methoxylated rubrenes were obtained from the 5 p-methoxy triphenylpropargyl alcs. by rubrenic condensation of the hydrochlorides of the corresponding propargyl alcs. or of their chloride esters. This is exactly the no. of methoxylated rubrenes predicted on the basis of a centrosym. reaction scheme. The rubrenes obtained were: 9,11-di(p-methoxyphenyl)-10,12-diphenylnaphthacene [from Ph2C(OH)C .tplbond. CC6H4OMe-p or p-MeOC6H4PhC(OH)C.tplbond.CPh]; 9-p-methoxyphenyl-10,11,12-triphenyl-

2-methoxynaphthacene, m. 227.degree., and 9,10,11,12-tetraphenyl-2,6-dimethoxynaphthacene, m. 259.degree. [from p-MeOC6H4PhC(OH)C.tplbond.CPh]; 9,11-di(p-methoxyphenyl)-10,12-diphenyl-2,6-dimethoxynaphthacene, m. 257.degree. [from (p-MeOC6H4)2C(OH)C.tplbond.CPh]; 9,11-di(p-methoxyphenyl)-10,12-diphenyl-3,7-dimethoxynaphthacene, m. 250.degree.; 9,10,11-tri(p-methoxyphenyl)-12-phenyl-7-methoxynaphthacene, m. 226.degree. (C6H6 solvate, m. 195.degree.); and 9,10,11,12-tetra(p-methoxyphenyl)naphthacene, m. 282.degree. (C6H6 solvate, m. 245.degree.) [from p-MeOC6H4PhC(OH)C.tplbond.CC6H4OMe-p]; and 9,10,11,12-tetra(p-methoxyphenyl)-2,6-dimethoxynaphthacene, m. 255.degree. [from (p-MeOC6H4)2C(OH)C.tplbond.CC6H4OMe-p]. Addnl. products, as yet unidentified, were also obtained; these were, however, shown not to have the rubrenic structure.

IT **118769-17-8**, Naphthacene, 2,8-dimethoxy-5,11-bis(p-methoxyphenyl)-6,12-diphenyl- **694489-88-8**, Naphthacene, 2,8-dimethoxy-5,6,11,12-tetrakis-(p-methoxyphenyl)-
(prepn. of)

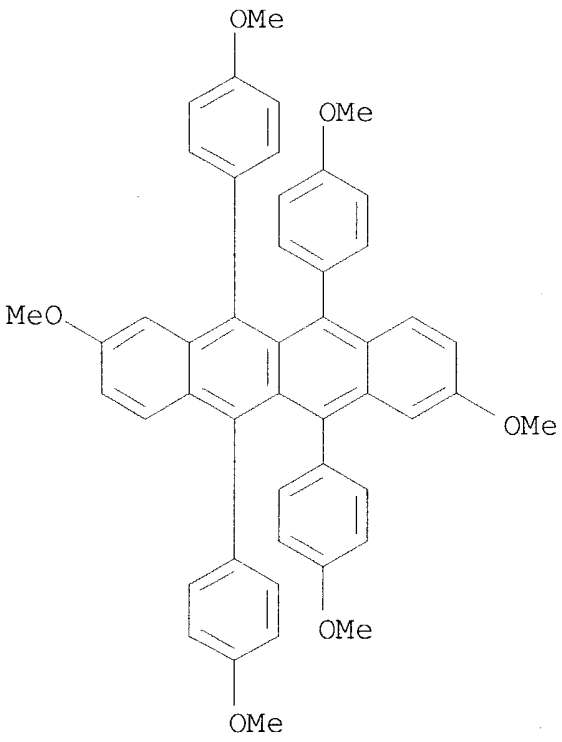
RN 118769-17-8 ZCAPLUS

CN Naphthacene, 2,8-dimethoxy-5,11-bis(p-methoxyphenyl)-6,12-diphenyl- (6CI) (CA INDEX NAME)



RN 694489-88-8 ZCAPLUS

CN Naphthacene, 2,8-dimethoxy-5,6,11,12-tetrakis-(p-methoxyphenyl)- (5CI) (CA INDEX NAME)



IT **118769-17-8**, Naphthacene, 2,8-dimethoxy-5,11-bis(p-methoxyphenyl)-6,12-diphenyl- **694489-88-8**, Naphthacene, 2,8-dimethoxy-5,6,11,12-tetrakis-(p-methoxyphenyl)-
(prepn. of)